



((b)) **Marking.** In addition to the marking specified in Federal Aviation Regulations (FAR) Section ~~21.607(d)~~, the following information shall be legibly and permanently marked on the major equipment components:

((1)) Each separate component of equipment that is manufactured under this TSO must be permanently and legibly marked with at least the name of the manufacturer the TSO number and part number.

((2)) With regard to FAR Section ~~21.607(d)~~((2)), the part number is to include hardware and software identification, or a separate part number may be utilized for hardware and software. Either approach must include a means for showing the modification status.

((3)) The software level or levels in accordance with RTCA/DO-178A.

NOTE: If multiple software levels are marked, then the installation instructions must clearly identify the software level for each function.

((4)) Instrument type (A, B, or C).

((5)) Nominal power input (electrical voltage and frequency) if applicable.

((c)) Data Requirements.

((1)) In addition to FAR Section ~~21.605~~, the manufacturer must furnish the Manager, Aircraft Certification Office (ACO), Federal Aviation Administration, having purview of the manufacturer's facilities, one copy each of the following technical instructions:

((i)) Operating instructions.

(ii) Equipment limitations.

(iii) Installation procedures and limitations.

(iv) Schematic drawings as applicable to the installation procedures.

((v)) Wiring diagrams as applicable to the installation procedures.

(vi) Specifications.

(vii) An environmental qualification form as described in ~~RTCA/DO-160C~~.

(viii) ~~Manufacturer's~~ TSO qualification test report.

(ix) Nameplate drawings.

(x) The appropriate documentation as defined in ~~RTCA/DO-178A~~.

(2) In addition to those data requirements that are to be furnished directly to the FM, each manufacturer must have available for review by the Manager of the ACO having purview of the manufacturer's facilities, the following technical data:

(I) A drawing list, enumerating all the drawings and processes that are necessary to define the article's design.

(Ii) The functional test specification to be used to test each production article to ensure compliance with this TSO.

(Iii) Equipment calibration procedures.

(iv) Corrective maintenance procedures (within 12 months after TSO authorization).

(v) Schematic drawings.

(vi) Wiring diagrams.

(vii) The appropriate documentation as defined in ~~RTCA/DO-178A~~.

(d) Data to be furnished with manufactured units. Each recipient of one or more articles manufactured under this TSO, shall be furnished with one copy of the data information specified in paragraphs (c)(l)(i) through (viii) of this TSO, along with instructions for periodic maintenance and calibration necessary for continued airworthiness of the article. In addition, a note with the following statement must be included:

"The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those desiring to install this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. The article may be installed only if further evaluation by the applicant documents an acceptable installation and is approved by the Administrator. "

(e) Availability of Reference Documents.

(1) Copies of SAE AS 8016 may be purchased from the Society of Automotive Engineers Inc., Department 331, 400 Commonwealth Drive, Warrendale, Pennsylvania 15096.

(2) Copies of RTCA Document Nos. DO-160C and DO-178A may be purchased from the Radio Technical Commission for Aeronautics Secretariat, One McPherson Square, Suite 500, 1425 K Street, NW, Washington, DC 20005.

(3) Federal Aviation Regulations Part 21, Subpart 0 may be purchased from the Superintendent of Documents, Government Printing Office, Washington, DC 20402-9325. Advisory Circular 20-110, "Index of Aviation Technical Standard Orders," may be obtained from the U.S. Department of Transportation, Utilization and Storage Section, ~~NI-443.2~~, Washington, DC.



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